



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Bin Liu

Serial No.: 10/532,649

Filed: April 25, 2005

For: CATIONIC WATER-SOLUBLE
CONJUGATED POLYMERS AND THEIR
PRECURSORS

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Examiner: Unknown

Group Art Unit: Unknown

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(R5/1145 PK/rs)

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Pursuant to M.P.E.P. 609 III A(2), copies of U.S. patents are not being provided. Copies of foreign patent documents and non-patent literature are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

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U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US - 3,287,321	11/22/1966	Temin
US - 4,880,508	11/14/1989	Aldissi
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Foreign Patent Documents

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
DE 198 46 767 A1	04/20/2000	Aventis Research
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Other Documents

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MIYAURA, Norio, et al., Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, *Chem Rev.*, Vol. 95, No. 7, pp. 2457-2483, 1995.

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PICKUP, Peter G., Poly-(3-Methylpyrrole-4-Carboxylic Acid): an Electronically Conducting Ion-Exchange Polymer, *J. Electroanal. Chem.*, Vol. 225, pp. 273-280, 1987.

RAU, I.U., et al., Towards rigid-rod polyelectrolytes via well-defined precursor poly(para-phenylene)s substituted by 6-iodohexyl side chains, *Acta Polymer*, Vol. 45, pp. 3-13, 1994.

RULKENS, Rudy, et al., Rigid-rod polyelectrolytes: synthesis of sulfonated poly(p-phenylene)s, *Macromol. Rapid Commun.*, Vol. 15, pp. 669-676, 1994.

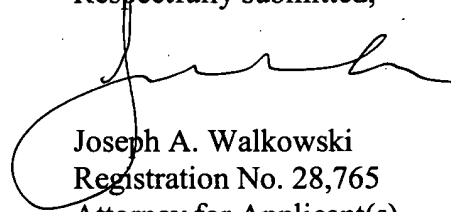
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Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits, and therefore no fee is due.

Respectfully submitted,



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JAW/ps:slm

Enclosures: Form PTO/SB/08
Copy of non-U.S. Patent documents cited

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 2

Complete if Known

Application Number	10/532,649
Filing Date	April 25, 2005
First Named Inventor	Bin Liu
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	3026-69771US (R5/1145 PK/rs)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BALANDA, Peter B., et al., Water-Soluble and Blue Luminescent Cationic Polyelectrolytes Based on Poly (p-phenylene), Macromolecules, Vol. 32, No. 12, pp. 3970-3978, 1999.	
		BRODOWSKI, Gisela, et al., Communications to the Editor, Synthesis and Intrinsic Viscosity in Salt-Free Solution of a Stiff-Chain Cationic Poly(p-phenylene) Polyelectrolyte, Macromolecules, Vol. 29, No. 21, pp. 6962-6965, 1996.	
		CHILD, Andrew D., et al., Water-Soluble Rigid-Rod Polyelectrolytes: A New Self-Doped, Electroactive Sufonatoalkoxy-Substituted Poly(p-phenylene), Macromolecules, Vol. 27, No. 7, pp. 1975-1977, 1994.	
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		MIYAURA, Norio, et al., Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Chem Rev., Vol. 95, No. 7, pp. 2457-2483, 1995.	
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		RAU, I.U., et al., Towards rigid-rod polyelectrolytes via well-defined precursor poly(para-phenylene)s substituted by 6-iodohexyl side chains, Acta Polymer, Vol. 45, pp. 3-13, 1994.	
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		SHI, Songqing, et al., Synthesis and Characterization of a Water-Soluble Poly(p-phenylenevinylene) Derivative, Macromolecules, Vol. 23, No. 8, pp. 2119-2124, 1990.	
		WALLOW, Thomas I., et al., Communications to the Editor, In Aqua Synthesis of Water-Soluble Poly(p-phenylene) Derivatives, J. Am. Chem Soc., Vol. 113, pp. 7411-7412, 1991.	
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